

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for de-screening image data, comprising:
generating an estimated screen frequency of the image data;
selecting two or more filters from a filter bank based directly on the estimated screen frequency and one or more limit parameters;
filtering the image data using the selected two or more filters from the filter ~~bank~~bank
such that the image data is filtered by each of the selected two or more filters resulting in two or more filtered image data each corresponding to either the entire image data or a same portion of the image data; and
blending the two or more filtered image data to form blended image data.
2. (Previously Presented) The method of claim 1, further comprising
generating a blend select signal that indicates how the two or more filtered image data are to be blended.
3. (Original) The method of claim 2, further comprising:
sharpening selected portions of blended image data based on luminance of the blended image data.
4. (Original) The method of claim 3, the sharpening comprising:
increasing sharpness of a selected portion if a luminance of the selected portion is below a predetermined threshold, a magnitude of sharpness being increased with increasing magnitude of the luminance.
5. (Previously Presented) The method of claim 1, further comprising:
generating intermediate filter selecting signals based on the estimated screen frequency;

generating a filter selecting signal based on the intermediate filter selecting signals and the one or more limit parameters;

selecting the two or more filters from the filter bank based on the filter selecting signal.

6. (Original) The method of claim 2, further comprising:

selecting a luminance component of a portion of the blended image data; and

adjusting the luminance component of the portion of the blended image data based on a sharpness control signal.

7. (Original) The method of claim 2, further comprising:

selecting chroma components of a portion of the blended image data; and

adjusting the chroma components of the portion of the blended image data based on a neutral control signal.

8. (Original) The method of claim 2, wherein the operations of generating, selecting filtering and blending are performed dynamically.

9. (Currently Amended) An apparatus to de-screen image data, comprising:

a screen frequency estimator to generate an estimated screen frequency of the image data;

a filter selector to select two or more filters from a filter bank based directly on the estimated screen frequency and one or more limit parameters;

a filterer to filter the image data using the selected two or more filters from the filter bank; bank such that the image data is filtered by each of the two or more filters to result in two or more filtered image data each corresponding to either the entire image data or a same portion of the image data; and

a filter output blender to blend ~~outputs of the two or more filters selected from the filter bank~~ filtered image data into blended image data.

10. (Previously Presented) The apparatus of claim 9, further comprising:

a blend selector to generate a blend select signal that indicates how the outputs of the selected two or more filters are to be blended.

11. (Original) The apparatus of claim 10, further comprising:

an image data sharpener to sharpen selected portions of blended image data based on luminance of the selected portions.

12. (Original) The apparatus of claim 11, wherein the image data sharpener increases sharpness of a selected portion if a luminance of the selected portion is below a predetermined threshold, a magnitude of sharpness being increased with increasing magnitude of the luminance.

13. (Original) The apparatus of claim 9, wherein the filter selector generates intermediate filter selecting signals based on the estimated screen frequency, and generates the filter selecting signal based on the intermediate filter selecting signals and one or more limit parameters.

14. (Previously Presented) The apparatus of claim 10, further comprising:

an image data neutralizer to neutralize selected portions of blended image data based on chroma components of the selected portions.

15. (Original) A xerographic marking device incorporating the apparatus of claim 9.

16. (Original) A scanning device incorporating the apparatus of claim 9.

17. (Original) A digital photocopier incorporating the apparatus of claim 9.

18. (Currently Amended) An apparatus to de-screen image data comprising:

means for generating an estimated screen frequency of the image data;

means for selecting two or more filters from a filter bank based directly on the estimated screen frequency and one or more limit parameters;

means for filtering the image data using the selected two or more filters from the filter bank; ~~bank~~ such that the image data is filtered by each of the two or more filters resulting in two or more filtered image data each corresponding to either the entire image data or a same portion of the image data; and

means for blending the two or more filtered image data into blended image data.

19. (Previously Presented) The apparatus of claim 18, further comprising:

means for increasing sharpness of a selected portions of blended image data if a luminance of a selected portion is below a predetermined threshold, a magnitude of sharpness being increased with increasing magnitude of the luminance.

20. (Currently Amended) A tangible computer-readable storage medium storing a set of program instructions to de-screen image data and executable on a data processing device, the set of program instructions comprising:

instructions for generating an estimated screen frequency of the image data;

instructions for selecting a plurality of filters from a bank of filters based directly on the estimated screen frequency and one or more limit parameters;

instructions for causing the image data to be filtered using selected plurality of filters from the filter bank ~~to produce a plurality of filtered image data;~~ such that the image data is filtered by each of the plurality of filters resulting in a plurality of filtered image data each corresponding to either the entire image data or a same portion of the image data; and

instructions for blending the plurality of filtered image data into blended image data.